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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,625	04/25/2005	Johannes Schaller	R.304062	7070
2119 DONALD E (7590 08/20/200	EXAMINER		
	REIGG P.L.L.C.	VANOY, TIMOTHY C		
1423 POWHATAN STREET, UNIT ONE ALEXANDRIA, VA 22314		DNE	ART UNIT	PAPER NUMBER
TIEE/M II VOIC	, v.1. 223. i		1754	
			MAIL DATE	DELIVERY MODE
			08/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary 10/532,625 SCHALLER ET AL.		Application No.	Applicant(s)
Timothy C. Vanoy 1754 The MAILING DATE of this communication appears on the cover sheet with the correspondence addres Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) D WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 3° CFR 1.136(a). In no event, however, may a neity be timely field. If NO period for reply is application above, the maximum statutory period will apply and vall excepts 30′ Kg MONTHS from the mailing date of this communication of the reply will be set or extended period for reply will by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply reveived by the Diffice later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filed on 25 April 2005. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the me closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 14-33 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) □ Claim(s) is/are allowed. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 25 April 2005 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-1 Priority under 35 U.S.C. § 119 12) □ Acknowle		10/532,625	SCHALLER ET AL.
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Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Apr. 25, 2005. Attachment(s) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 9 Notice of Informal Patent Application 6) Other:	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mai 5) Notice of Inform	I Date

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

The person having ordinary skill in the art has the capability of understanding the scientific and engineering principles applicable to the claimed invention. The references of record in this application reasonably reflect this level of skill.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 14-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over the English abstract of DE 199 35 920 A1 to Weigl in view of US 2004/0115110 A1 to Ripper et al.

The English abstract of DE-920 describes a method for treating the exhaust gas emitted from an internal combustion engine by providing a heating element in the reduction agent reservoir container, which reliably prevents freezing of the reduction agent stored in the reservoir container.

The difference between the applicants' claims and DE-920 is that DE-920 does not mention that the heating of the reduction agent results in a partial chemical conversion of the reduction agent.

The Ripper et al. application is directed to the same art of treating the exhaust gas emitted from an internal combustion engine by injecting urea into the exhaust gas to react with and remove the nitrogen oxides out of the exhaust gas (please see paragraph no. 0010). Paragraph no.s 0015 and 0016 disclose that the urea may be heated and thereby undergo decomposition into ammonia.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made *to have further described* the process set forth in DE-920 by setting forth that the reducing agent undergoes a chemical conversion (as a

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consequence of the heating), in the manner set forth in the applicants' claims, *because* paragraph no.s 0015 and 0016 in the Ripper et al. application reasonably teaches that the application of heat to urea causes it to decompose into ammonia.

The following references are made of record:

US 2007/0163238 A1 disclosing a method for metering a reagent into the exhaust gas emitted from an internal combustion engine;

US 2007/0157602 A1 disclosing a tank system having a melting device;

US 2007/0048204 A1 disclosing a flash injector for ammonia-SCR NO_x aftertreatment;

US 2006/0147362 A1 disclosing a catalytic process for reducing nitrogen oxides in flue gases;

US 2004/0025498 A1 disclosing a method and system for freeze protecting liquid NO_x reductants for vehicle applications; and

US 2001/0053342 A1 disclosing a method and device for the selective catalytic NO_{x} reduction.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy C. Vanoy whose telephone number is 571-272-8158. The examiner can normally be reached on Mon-Fri 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Timothy C Vancy Timothy C Vancy Primary Examiner Art Unit 1754

tcv